

RESEARCH DEPARTMENT

BEDFORD V.H.F. RELAY STATION: SUMMARY OF INSTALLATION

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for Head of Research and Development

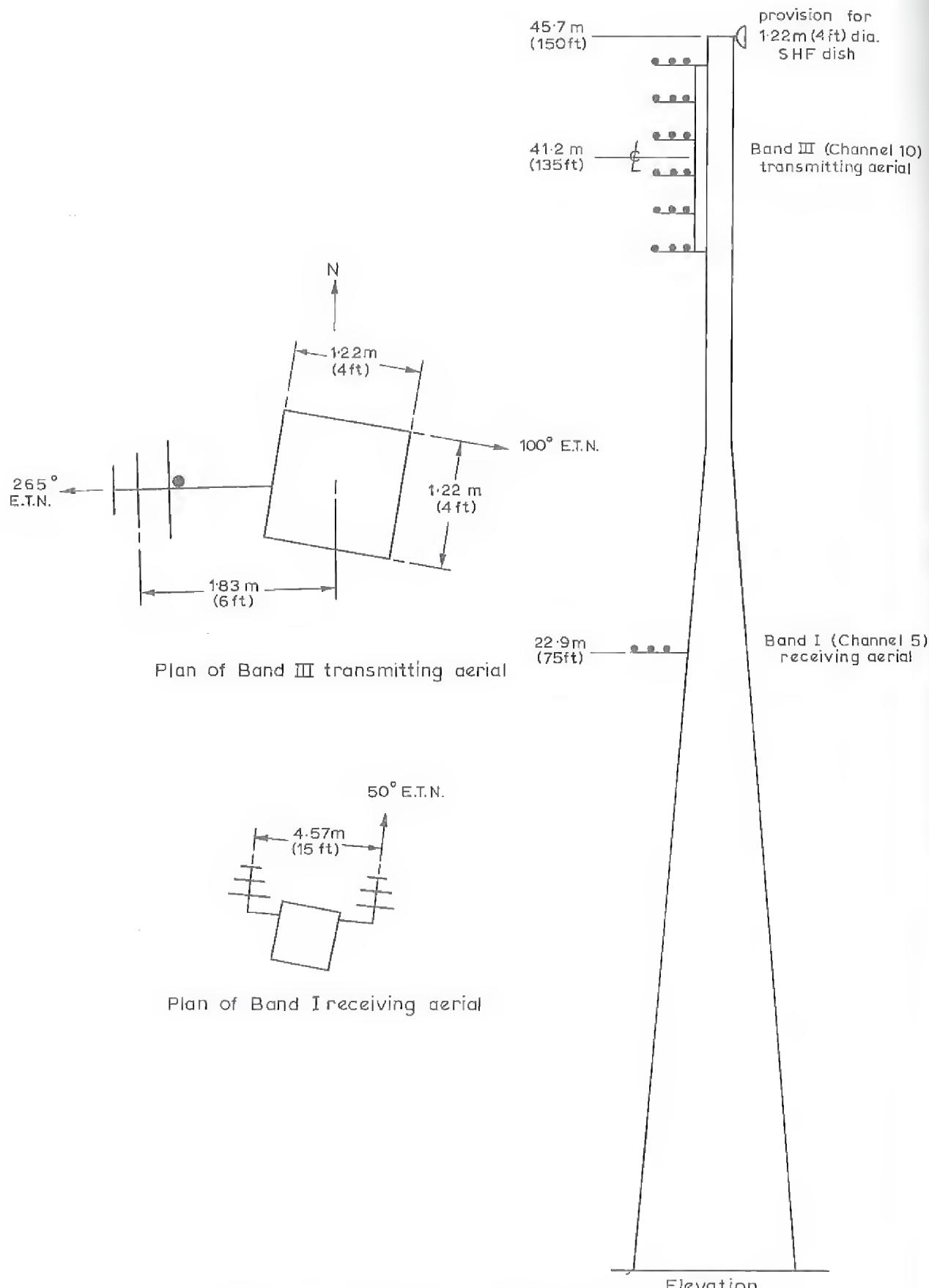


Fig. 1. General arrangement of aerials on tower

V.H.F. RELAY STATIONS : SUMMARY OF INSTALLATION
TELEVISION

NAME: BEDFORD

SERVICE TRANSMISSIONS COMMENCED: 20th November 1967

SITE DATA

LOCATION: Approximately 8 km (5 miles)
East of Bedford

GRID REFERENCE: TL 131481

HEIGHT, A.O.D.: 54.9 m (180 ft)

TRANSMITTING AERIAL

DESCRIPTION: Single horizontal
three-element Yagi per tier

NUMBER OF TIERS: 6

MEAN HEIGHT: 41.2 m (135 ft) a.g.l.

SUPPORT STRUCTURE

TYPE: Self Supporting Tower

OVERALL HEIGHT: 45.7 m (150 ft)

FEEDERS

TRANSMITTING: T 3321

GENERAL ARRANGEMENT

FIGURE: 1

RADIATION CHARACTERISTICS

POLARIZATION: Horizontal

MEAN E.R.P.: 510 W

FREQUENCIES

MAXIMUM E.R.P.: 2.75 kW

BAND: III

CHANNEL: 10

H.R.P.: Fig. 2

TRANSMITTER

POWER: 140 Watts (Transmitter)

PROGRAMME SOURCE

PARENT: Peterborough
Obtained by direct reception

NOTES:

1. Detailed information is given on the following drawings held by BBC Transmitter Planning and Installation Department:

TP 6047.2.183A4

Masts General, Outline and Orientation
of 150 ft Tower

TP 9533.2.5A1

Transmitting Yagis

PID 8732.2.4A2

Band I Receiving Yagis, Type 353 P

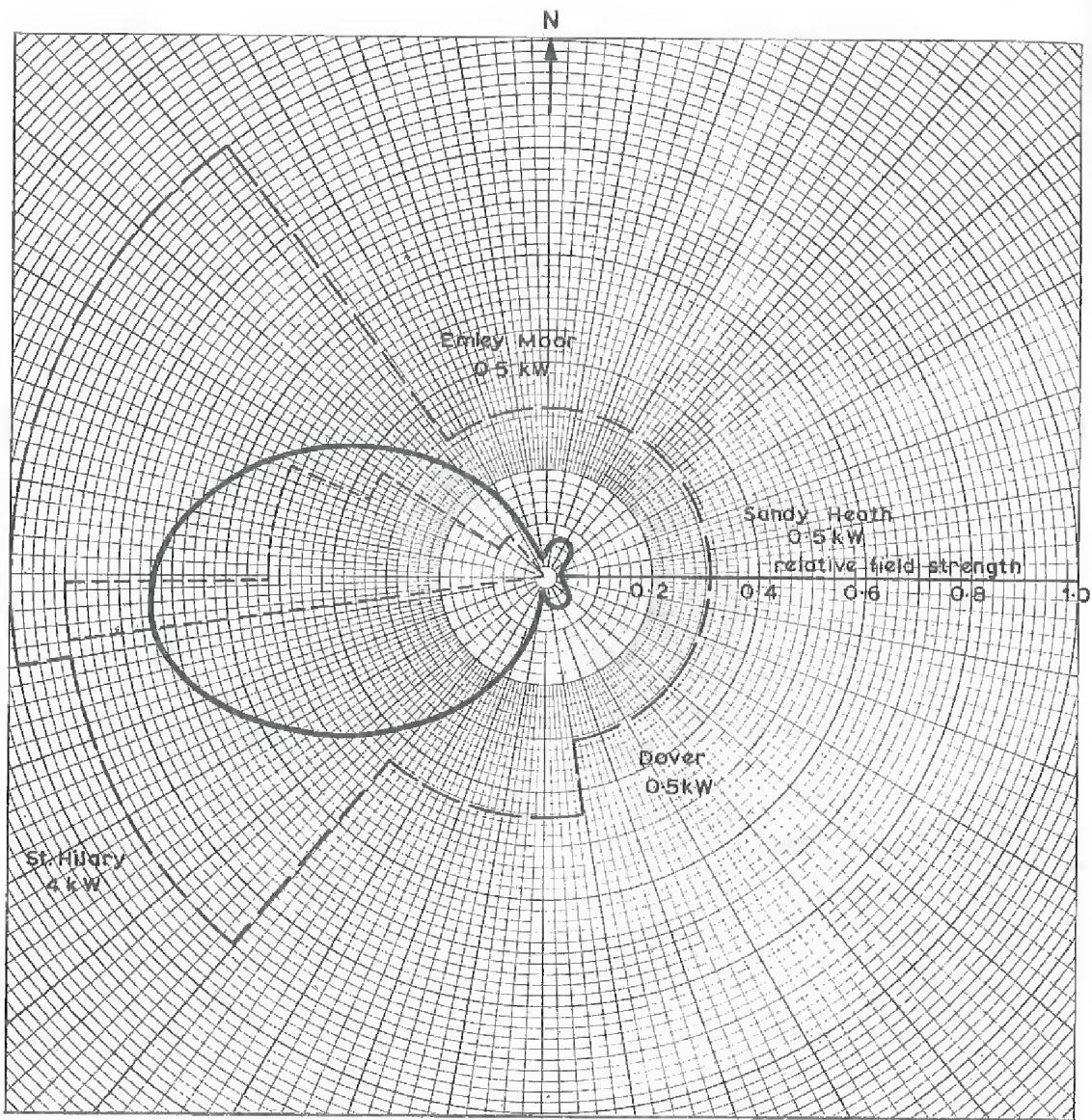


Fig. 2. Templet and horizontal radiation pattern

——— Maximum permissible E.R.P
 - - - - Minimum desirable E.R.P
 Unit field corresponds to an E.R.P. of 5 kW

R.E.
J.P.